

Underground Injection Control (UIC) Rules OAR 340-044

What is Underground Injection Control?	340-044-0010	Requirements to limit and control injection of wastes into the subsurface to protect existing groundwater quality for current and future beneficial uses including use as a source for drinking water
What is an underground injection system?	340-044-0005(24) 340-044-0011	<p>A well, improved sinkhole, sewage drain hole, subsurface fluid distribution system or other system or groundwater point source used for the subsurface emplacement or discharge of fluids</p> <p><i>Injection System Classification</i></p> <ul style="list-style-type: none"> • <i>Class I</i> – Hazardous and radioactive waste or fluid injection <i>beneath</i> groundwater • <i>Class II</i> – Fluids from natural gas or oil production or oil storage • <i>Class III</i> - Fluids use for mineral extraction • <i>Class IV</i> – Hazardous waste injection <i>into or above</i> groundwater • <i>Class V</i> – All others
How is underground injection controlled?	340-044-0012	<p>An injection activity, including construction, modification, operation, and maintenance of an injection system, is not allowed unless it is:</p> <ul style="list-style-type: none"> • “Excluded” from UIC regulation • Authorized by rule • Authorized by permit • Permits will not be issued if other treatment or disposal options are available to better protect water resources

<p>What injection activities are “excluded” from UIC regulation?</p>	<p>340-044-0013</p>	<ul style="list-style-type: none"> • Single family residential septic systems and cesspools • Non-residential septic systems and cesspools serving less than 20 people per day or with a design flow less than 2,500 gpd • Natural gas storage • Holes not used for subsurface emplacement of fluids
<p>When is underground injection <u>prohibited</u>?</p>	<p>340-044-0014</p> <p>340-044-0015(1)</p> <p>340-044-0015(2)</p> <p>340-044-0015(3) and 340-044-0017</p>	<p>If it causes groundwater contamination above background or levels allowed in OAR 340-040 or drinking water Maximum Contaminant Levels</p> <p>If it is a Class I, II, III, or IV injection system (exceptions – oil or gas production; groundwater remediation)</p> <p>If it is this type of Class V injection system injecting:</p> <ul style="list-style-type: none"> • Sewage into cesspools (phase out by 4/5/2005) • Fluids from industrial/commercial processes using hazardous substances or petroleum products (exceptions with specific permit conditions) • Fluids from operation areas where hazardous substances or petroleum products are used or stored • Fluids directly from floor drains at industrial/commercial facilities • Motor vehicle waste from vehicle repair or maintenance • Industrial or municipal wastewater directly into groundwater • Agricultural drainage <p>If it injects sanitary, industrial or commercial waste into a <u>sewage drill hole</u> (some exceptions for use and repair of existing sewage drill holes)</p>
<p>What is required for authorization by rule?</p>	<p>340-044-0018(1)</p>	<p><i>General Requirements</i></p> <ul style="list-style-type: none"> • Owner/operator submits inventory information and registers the injection system • The injection does not have the potential to cause groundwater contamination • Owner/operator submits additional information as needed to determine the potential for groundwater contamination <p><i>No permit is required if injection is authorized by rule</i></p>

<p>What kind of injection can be authorized by rule?</p>	<p>340-044-0018 (2), (3), (4)</p>	<ul style="list-style-type: none"> • Treated groundwater as part of an approved remedial action (Class IV, Class V) • On-site sewage disposal systems for sanitary waste only (subject to OAR 340-071) • Low temperature geothermal return fluids • Non-contact heating or cooling fluid return • ReInjection of groundwater from dewatering activities • Storm water runoff from roof tops • Temporary injection for water well maintenance • Injection to control subsidence or salt water intrusion • Other storm water with additional <i>Basic Requirements</i> and <i>Category Requirements</i> for municipal, industrial/commercial, parking lot, residential injection • Other Class V injection on a case-by-case basis
<p>What inventory information needs to be submitted?</p>	<p>340-044-0020</p>	<p>Facility name, location, owner, type and status of injection system</p> <p>Additional information may be required as specified on the registration form</p>
<p>When is inventory information submitted?</p>	<p>340-044-0020(1)</p>	<p>Before construction and operation of a new injection system</p> <p>With permit application if authorized by a permit</p>
<p>What kind of underground injection needs a permit?</p>	<p>340-044-0035</p>	<p>Any allowable injection activity that is not excluded from UIC regulation or authorized by rule</p> <p>A permit is required before construction, maintenance, and operation</p>

What is required when an injection system is no longer in use?	340-044-0040	<p>Decommission or convert the injection system</p> <p>Notify DEQ 30 days prior to closure</p> <p>Comply with applicable decommissioning requirements based on injection system type and design.</p> <p>Certify proper decommissioning by a registered professional geologist, engineering geologist, or engineer (except for on-site systems and storm water from rooftops)</p> <p>Potentially contaminated injection systems may be required to submit a closure plan and report sampling results to DEQ</p>
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